

What is claimed is:

1. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1 from nucleotide 12 to nucleotide 800;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1 from nucleotide 78 to nucleotide 800;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1 from nucleotide 1 to nucleotide 547;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bh389_11 deposited under accession number ATCC 98451;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bh389_11 deposited under accession number ATCC 98451;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bh389_11 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bh389_11 deposited under accession number ATCC 98451;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:2;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:2 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:2;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
2. The polynucleotide of claim 1 wherein said polynucleotide is operably linked to at least one expression control sequence.
3. A host cell transformed with the polynucleotide of claim 2.
4. The host cell of claim 3, wherein said cell is a mammalian cell.
5. A process for producing a protein encoded by the polynucleotide of claim 2, which process comprises:

(a) growing a culture of the host cell of claim 3 in a suitable culture medium;
and
(b) purifying said protein from the culture.

5 6. A protein produced according to the process of claim 5.

7. A protein comprising an amino acid sequence selected from the group consisting of:
(a) the amino acid sequence of SEQ ID NO:2;
10 (b) the amino acid sequence of SEQ ID NO:2 from amino acid 1 to amino acid 178;
(c) fragments of the amino acid sequence of SEQ ID NO:2 comprising eight consecutive amino acids of SEQ ID NO:2; and
(d) the amino acid sequence encoded by the cDNA insert of clone bh389_11
15 deposited under accession number ATCC 98451;
the protein being substantially free from other mammalian proteins.

8. The protein of claim 7, wherein said protein comprises the amino acid sequence of SEQ ID NO:2.

20 9. The protein of claim 7, wherein said protein comprises the amino acid sequence of SEQ ID NO:2 from amino acid 1 to amino acid 178.

25 10. A composition comprising the protein of claim 7 and a pharmaceutically acceptable carrier.

11. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:1.
12. An isolated polynucleotide selected from the group consisting of:
30 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 100 to nucleotide 882;
(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 635 to nucleotide 867;
35 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bk112_15 deposited under accession number ATCC 98451;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bk112_15 deposited under accession number ATCC 98451;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bk112_15 deposited under accession number ATCC 98451;
- 5 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bk112_15 deposited under accession number ATCC 98451;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:4;
- 10 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:4 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:4;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 15 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

13. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:4;
 - (b) the amino acid sequence of SEQ ID NO:4 from amino acid 200 to amino acid 256;
 - (c) fragments of the amino acid sequence of SEQ ID NO:4 comprising eight consecutive amino acids of SEQ ID NO:4; and
 - 25 (d) the amino acid sequence encoded by the cDNA insert of clone bk112_15 deposited under accession number ATCC 98451;
the protein being substantially free from other mammalian proteins.

- 30 14. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:3.
15. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:5;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:5 from nucleotide 245 to nucleotide 520;
 - 35 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:5 from nucleotide 181 to nucleotide 527;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bk200_13 deposited under accession number ATCC 98451;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bk200_13 deposited under accession number ATCC 98451;
- 5 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bk200_13 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bk200_13 deposited under accession number ATCC 98451;
- 10 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:6;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:6 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:6;
- 15 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(i).

16. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:6;
- 25 (b) fragments of the amino acid sequence of SEQ ID NO:6 comprising eight consecutive amino acids of SEQ ID NO:6; and
- (c) the amino acid sequence encoded by the cDNA insert of clone bk200_13 deposited under accession number ATCC 98451;
the protein being substantially free from other mammalian proteins.

30 17. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:5.

18. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7;
- 35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7 from nucleotide 365 to nucleotide 784;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7 from nucleotide 518 to nucleotide 784;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone di386_3 deposited under accession number ATCC 98451;
- 5 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone di386_3 deposited under accession number ATCC 98451;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone di386_3 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone di386_3 deposited under accession number ATCC 98451;
- 10 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:8;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:8 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:8;
- 15 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(i)..

19. A protein comprising an amino acid sequence selected from the group consisting of:
- 25 (a) the amino acid sequence of SEQ ID NO:8;
- (b) the amino acid sequence of SEQ ID NO:8 from amino acid 1 to amino acid 140;
- (c) fragments of the amino acid sequence of SEQ ID NO:8 comprising eight consecutive amino acids of SEQ ID NO:8; and
- 30 (d) the amino acid sequence encoded by the cDNA insert of clone di386_3 deposited under accession number ATCC 98451;
- the protein being substantially free from other mammalian proteins.

20. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:7 and SEQ ID NO:9.

- 35 21. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10 from nucleotide 191 to nucleotide 781;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10 from nucleotide 56 to nucleotide 492;
- 5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone em397_2 deposited under accession number ATCC 98451;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone em397_2 deposited under accession number ATCC 98451;
- 10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone em397_2 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone em397_2 deposited under accession number ATCC 98451;
- 15 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:11;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:11 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:11;
- 20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
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22. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:11;
- (b) the amino acid sequence of SEQ ID NO:11 from amino acid 1 to amino acid 101;
- 30 (c) fragments of the amino acid sequence of SEQ ID NO:11 comprising eight consecutive amino acids of SEQ ID NO:11; and
- (d) the amino acid sequence encoded by the cDNA insert of clone em397_2 deposited under accession number ATCC 98451;
- 35 the protein being substantially free from other mammalian proteins.
23. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:10.

24. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 65 to nucleotide 1636;
- 5 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 482 to nucleotide 1636;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 487 to nucleotide 1006;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fh170_7 deposited under accession number ATCC 98451;
- 10 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fh170_7 deposited under accession number ATCC 98451;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fh170_7 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fh170_7 deposited under accession number ATCC 98451;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:13;
- 20 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:13 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:13;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 25 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 30 25. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:13;
 - (b) the amino acid sequence of SEQ ID NO:13 from amino acid 142 to amino acid 314;
- 35 (c) fragments of the amino acid sequence of SEQ ID NO:13 comprising eight consecutive amino acids of SEQ ID NO:13; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fh170_7 deposited under accession number ATCC 98451;

the protein being substantially free from other mammalian proteins.

26. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:12.
- 5 27. An isolated polynucleotide selected from the group consisting of:
(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:15;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:15
from nucleotide 41 to nucleotide 550;
(c) a polynucleotide comprising the nucleotide sequence of the full-length
10 protein coding sequence of clone fn53_4 deposited under accession number ATCC
98451;
(d) a polynucleotide encoding the full-length protein encoded by the cDNA
insert of clone fn53_4 deposited under accession number ATCC 98451;
(e) a polynucleotide comprising the nucleotide sequence of a mature protein
15 coding sequence of clone fn53_4 deposited under accession number ATCC 98451;
(f) a polynucleotide encoding a mature protein encoded by the cDNA insert
of clone fn53_4 deposited under accession number ATCC 98451;
(g) a polynucleotide encoding a protein comprising the amino acid sequence
of SEQ ID NO:16;
20 (h) a polynucleotide encoding a protein comprising a fragment of the amino
acid sequence of SEQ ID NO:16 having biological activity, the fragment comprising
eight consecutive amino acids of SEQ ID NO:16;
(i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f)
above;
25 (j) a polynucleotide which encodes a species homologue of the protein of
(g) or (h) above; and
(k) a polynucleotide that hybridizes under stringent conditions to any one
of the polynucleotides specified in (a)-(h).
- 30 28. A protein comprising an amino acid sequence selected from the group
consisting of:
(a) the amino acid sequence of SEQ ID NO:16;
(b) the amino acid sequence of SEQ ID NO:16 from amino acid 40 to amino
acid 170;
35 (c) fragments of the amino acid sequence of SEQ ID NO:16 comprising eight
consecutive amino acids of SEQ ID NO:16; and
(d) the amino acid sequence encoded by the cDNA insert of clone fn53_4
deposited under accession number ATCC 98451;

the protein being substantially free from other mammalian proteins.

29. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:15, SEQ ID NO:14, and SEQ ID NO:17 .

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30. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18 from nucleotide 84 to nucleotide 404;

10 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18 from nucleotide 78 to nucleotide 493;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fq505_4 deposited under accession number ATCC 98451;

15 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fq505_4 deposited under accession number ATCC 98451;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fq505_4 deposited under accession number ATCC 98451;

20 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fq505_4 deposited under accession number ATCC 98451;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:19;

25 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:19 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:19;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

30 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

31. A protein comprising an amino acid sequence selected from the group consisting of:

35 (a) the amino acid sequence of SEQ ID NO:19;

(b) the amino acid sequence of SEQ ID NO:19 from amino acid 23 to amino acid 107;

- (c) fragments of the amino acid sequence of SEQ ID NO:19 comprising eight consecutive amino acids of SEQ ID NO:19; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fq505_4 deposited under accession number ATCC 98451;
- 5 the protein being substantially free from other mammalian proteins.

32. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:18.
33. An isolated polynucleotide selected from the group consisting of:
- 10 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20 from nucleotide 1439 to nucleotide 1744;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20 from nucleotide 1241 to nucleotide 1754;
 - 15 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fw13_9 deposited under accession number ATCC 98451;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fw13_9 deposited under accession number ATCC 98451;
 - 20 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fw13_9 deposited under accession number ATCC 98451;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fw13_9 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence 25 of SEQ ID NO:21;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:21 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:21;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) 30 above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

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34. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:21;

- (b) the amino acid sequence of SEQ ID NO:21 from amino acid 1 to amino acid 57;
- (c) fragments of the amino acid sequence of SEQ ID NO:21 comprising eight consecutive amino acids of SEQ ID NO:21; and
- 5 (d) the amino acid sequence encoded by the cDNA insert of clone fw13_9 deposited under accession number ATCC 98451;
the protein being substantially free from other mammalian proteins.

35. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:20.
- 10 36. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:22;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:22 from nucleotide 47 to nucleotide 919;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:22 from nucleotide 124 to nucleotide 452;
- 15 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gg619_2 deposited under accession number ATCC 98451;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gg619_2 deposited under accession number ATCC 98451;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gg619_2 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gg619_2 deposited under accession number ATCC 98451;
- 20 25 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:23;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:23 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:23;
- 30 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one 35 of the polynucleotides specified in (a)-(i).

37. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:23;
- (b) the amino acid sequence of SEQ ID NO:23 from amino acid 27 to amino acid 135;
- (c) fragments of the amino acid sequence of SEQ ID NO:23 comprising eight consecutive amino acids of SEQ ID NO:23; and
- 5 (d) the amino acid sequence encoded by the cDNA insert of clone gg619_2 deposited under accession number ATCC 98451;
the protein being substantially free from other mammalian proteins.

- 3810 An isolated gene corresponding to the cDNA sequence of SEQ ID NO:22.
39. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 2178 to nucleotide 2513;
 - 15 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 2364 to nucleotide 2513;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 1980 to nucleotide 2311;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cl181_3 deposited under accession number ATCC 98456;

20 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cl181_3 deposited under accession number ATCC 98456;

 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cl181_3 deposited under accession number ATCC 98456;

25 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cl181_3 deposited under accession number ATCC 98456;

 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:36;

30 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:36 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:36;

 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

35 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

40. The polynucleotide of claim 38 wherein said polynucleotide is operably linked to at least one expression control sequence.

41. A host cell transformed with the polynucleotide of claim 39.

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42. The host cell of claim 41, wherein said cell is a mammalian cell.

43. A process for producing a protein encoded by the polynucleotide of claim 39, which process comprises:

10 (a) growing a culture of the host cell of claim 41 in a suitable culture medium; and

(b) purifying said protein from the culture.

15 44. A protein produced according to the process of claim 43.

45. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:47;

(b) the amino acid sequence of SEQ ID NO:47 from amino acid 1 to amino acid 67;

(c) fragments of the amino acid sequence of SEQ ID NO:47 comprising eight consecutive amino acids of SEQ ID NO:47; and

(d) the amino acid sequence encoded by the cDNA insert of clone cl181_3 deposited under accession number ATCC 98456;

25 the protein being substantially free from other mammalian proteins.

46. The protein of claim 45, wherein said protein comprises the amino acid sequence of SEQ ID NO:47.

30 47. The protein of claim 45, wherein said protein comprises the amino acid sequence of SEQ ID NO:36 from amino acid 1 to amino acid 67.

48. A composition comprising the protein of claim 45 and a pharmaceutically acceptable carrier.

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49. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:35.

50. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37 from nucleotide 207 to nucleotide 893;
- 5 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37 from nucleotide 1 to nucleotide 527;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cr1044_1 deposited under accession number ATCC 98456;
- 10 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cr1044_1 deposited under accession number ATCC 98456;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cr1044_1 deposited under accession number ATCC 98456;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cr1044_1 deposited under accession number ATCC 98456;
- 15 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:38;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:38 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:38;
- 20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one 25 of the polynucleotides specified in (a)-(i).

51. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:38;
 - 30 (b) the amino acid sequence of SEQ ID NO:38 from amino acid 1 to amino acid 107;
 - (c) fragments of the amino acid sequence of SEQ ID NO:38 comprising eight consecutive amino acids of SEQ ID NO:38; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cr1044_1 deposited under accession number ATCC 98456;
- 35 the protein being substantially free from other mammalian proteins.

52. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:38.

53. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39
- 5 from nucleotide 77 to nucleotide 400;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39 from nucleotide 118 to nucleotide 392;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cz251_1 deposited under accession number ATCC 98456;
- 10 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cz251_1 deposited under accession number ATCC 98456;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cz251_1 deposited under accession number ATCC 98456;
- 15 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cz251_1 deposited under accession number ATCC 98456;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:40;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:40 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:40;
- 20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- 25 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

54. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:40;
 - (b) the amino acid sequence of SEQ ID NO:40 from amino acid 15 to amino acid 105;
 - (c) fragments of the amino acid sequence of SEQ ID NO:40 comprising eight consecutive amino acids of SEQ ID NO:40; and
- 35 (d) the amino acid sequence encoded by the cDNA insert of clone cz251_1 deposited under accession number ATCC 98456;
- the protein being substantially free from other mammalian proteins.

55. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:39.
56. An isolated polynucleotide selected from the group consisting of:
- 5 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41 from nucleotide 13 to nucleotide 501;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41 from nucleotide 1 to nucleotide 506;
- 10 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dd12_7 deposited under accession number ATCC 98456;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dd12_7 deposited under accession number ATCC 98456;
- 15 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dd12_7 deposited under accession number ATCC 98456;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dd12_7 deposited under accession number ATCC 98456;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence 20 of SEQ ID NO:42;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:42 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:42;
- 25 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 30 57. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:42;
- (b) fragments of the amino acid sequence of SEQ ID NO:42 comprising eight 35 consecutive amino acids of SEQ ID NO:8; and
- (c) the amino acid sequence encoded by the cDNA insert of clone dd12_7 deposited under accession number ATCC 98456;
- the protein being substantially free from other mammalian proteins.

58. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:41.
59. An isolated polynucleotide selected from the group consisting of:
- 5 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 778 to nucleotide 1083;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 931 to nucleotide 1083;
- 10 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 802 to nucleotide 1056;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fn191_3 deposited under accession number ATCC 98456;
- 15 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fn191_3 deposited under accession number ATCC 98456;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fn191_3 deposited under accession number ATCC 98456;
- 20 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fn191_3 deposited under accession number ATCC 98456;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:44;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:44 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:44;
- 25 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 30 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
60. A protein comprising an amino acid sequence selected from the group consisting of:
- 35 (a) the amino acid sequence of SEQ ID NO:44;
- (b) the amino acid sequence of SEQ ID NO:44 from amino acid 1 to amino acid 93;

- (c) fragments of the amino acid sequence of SEQ ID NO:44 comprising eight consecutive amino acids of SEQ ID NO:44; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fn191_3 deposited under accession number ATCC 98456;
- 5 the protein being substantially free from other mammalian proteins.

- 61. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:43.
- 62. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45;
 - 10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 390 to nucleotide 1355;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 1384 to nucleotide 1736;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gm196_4 deposited under accession number ATCC 98456;
 - 15 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gm196_4 deposited under accession number ATCC 98456;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gm196_4 deposited under accession number ATCC 98456;
 - 20 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gm196_4 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:46;
 - 25 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:46 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:46;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - 30 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

- 35 63. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:46;

- (b) fragments of the amino acid sequence of SEQ ID NO:46 comprising eight consecutive amino acids of SEQ ID NO:46; and
- (c) the amino acid sequence encoded by the cDNA insert of clone gm196_4 deposited under accession number ATCC 98456;
- 5 the protein being substantially free from other mammalian proteins.

64. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:45.
65. An isolated polynucleotide selected from the group consisting of:
- 10 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47 from nucleotide 879 to nucleotide 1391;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47 from nucleotide 519 to nucleotide 1074;
- 15 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gn114_1 deposited under accession number ATCC 98456;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gn114_1 deposited under accession number ATCC 98456;
- 20 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gn114_1 deposited under accession number ATCC 98456;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gn114_1 deposited under accession number ATCC 98456;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence 25 of SEQ ID NO:48;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:48 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:48;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) 30 above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 35 66. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:48;

- (b) the amino acid sequence of SEQ ID NO:48 from amino acid 1 to amino acid 65;
- (c) fragments of the amino acid sequence of SEQ ID NO:48 comprising eight consecutive amino acids of SEQ ID NO:48; and
- 5 (d) the amino acid sequence encoded by the cDNA insert of clone gn114_1 deposited under accession number ATCC 98456;
the protein being substantially free from other mammalian proteins.

67. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:47.

- 10 68. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 225 to nucleotide 1508;
- 15 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 252 to nucleotide 1508;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:15 from nucleotide 1 to nucleotide 302;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone hj968_2 deposited under accession number ATCC 98456;
- 20 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hj968_2 deposited under accession number ATCC 98456;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hj968_2 deposited under accession number ATCC 98456;
- 25 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hj968_2 deposited under accession number ATCC 98456;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:50;
- 30 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:50 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:50;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 35 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

69. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:50;
 - 5 (b) the amino acid sequence of SEQ ID NO:50 from amino acid 1 to amino acid 26;
 - (c) fragments of the amino acid sequence of SEQ ID NO:50 comprising eight consecutive amino acids of SEQ ID NO:50; and
 - 10 (d) the amino acid sequence encoded by the cDNA insert of clone hj968_2 deposited under accession number ATCC 98456;
- the protein being substantially free from other mammalian proteins.

70. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:49.

15 71. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 1113 to nucleotide 1274;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 1233 to nucleotide 1274;
- 20 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 894 to nucleotide 1309;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone hk10_3 deposited under accession number ATCC 98456;
- 25 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hk10_3 deposited under accession number ATCC 98456;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hk10_3 deposited under accession number ATCC 98456;
- 30 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hk10_3 deposited under accession number ATCC 98456;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:52;
- 35 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:52 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:52;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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72. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:52;
 - (b) fragments of the amino acid sequence of SEQ ID NO:52 comprising eight consecutive amino acids of SEQ ID NO:52; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone hk10_3 deposited under accession number ATCC 98456;
the protein being substantially free from other mammalian proteins.

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73. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:52.
74. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:53;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:53 from nucleotide 96 to nucleotide 1145;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:53 from nucleotide 109 to nucleotide 539;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone hm236_1 deposited under accession number ATCC 98456;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hm236_1 deposited under accession number ATCC 98456;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hm236_1 deposited under accession number ATCC 98456;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hm236_1 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:54;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:54 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:54;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

- (k) a polynucleotide which encodes a species homologue of the protein of
- (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

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75. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:54;
 - (b) the amino acid sequence of SEQ ID NO:54 from amino acid 6 to amino acid 148;
 - (c) fragments of the amino acid sequence of SEQ ID NO:54 comprising eight consecutive amino acids of SEQ ID NO:54; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone hm236_1 deposited under accession number ATCC 98456;
- 15 the protein being substantially free from other mammalian proteins.

76. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:54.

77. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 185 to nucleotide 1600;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 1403 to nucleotide 1600;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 1 to nucleotide 850;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone do15_4 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone do15_4 deposited under accession number ATCC 98468;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone do15_4 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone do15_4 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:68;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:2 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:2;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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78. The polynucleotide of claim 1 wherein said polynucleotide is operably linked to at least one expression control sequence.

79. A host cell transformed with the polynucleotide of claim 78.

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80. The host cell of claim 79, wherein said cell is a mammalian cell.

81. A process for producing a protein encoded by the polynucleotide of claim 80, which process comprises:

20 and

- (a) growing a culture of the host cell of claim 3 in a suitable culture medium;
- (b) purifying said protein from the culture.

82. A protein produced according to the process of claim 81.

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82. A protein comprising an amino acid sequence selected from the group consisting of:

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- (a) the amino acid sequence of SEQ ID NO:68;
- (b) the amino acid sequence of SEQ ID NO:68 from amino acid 1 to amino acid 222;
- (c) fragments of the amino acid sequence of SEQ ID NO:68 comprising eight consecutive amino acids of SEQ ID NO:68; and
- (d) the amino acid sequence encoded by the cDNA insert of clone do15_4 deposited under accession number ATCC 98468;
the protein being substantially free from other mammalian proteins.

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83. The protein of claim 82, wherein said protein comprises the amino acid sequence of SEQ ID NO:68.

84. The protein of claim 82, wherein said protein comprises the amino acid sequence of SEQ ID NO:68 from amino acid 1 to amino acid 222.

85. A composition comprising the protein of claim 82 and a pharmaceutically acceptable carrier.

86. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:67.

87. An isolated polynucleotide selected from the group consisting of:

- 10 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 47 to nucleotide 2065;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 1086 to nucleotide 1848;
- 15 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dx290_1 deposited under accession number ATCC 98468;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dx290_1 deposited under accession number ATCC 98468;
- 20 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dx290_1 deposited under accession number ATCC 98468;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dx290_1 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence 25 of SEQ ID NO:70;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:70 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:70;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 30 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

35 88. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:70;

- (b) the amino acid sequence of SEQ ID NO:70 from amino acid 312 to amino acid 600;
- (c) fragments of the amino acid sequence of SEQ ID NO:70 comprising eight consecutive amino acids of SEQ ID NO:70; and
- 5 (d) the amino acid sequence encoded by the cDNA insert of clone dx290_1 deposited under accession number ATCC 98468;
the protein being substantially free from other mammalian proteins.

10 89. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:69.

- 10 90. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 107 to nucleotide 724;
- 15 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 218 to nucleotide 724;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 536 to nucleotide 866;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ek390_4 deposited under accession number ATCC 98468;
- 20 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ek390_4 deposited under accession number ATCC 98468;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ek390_4 deposited under accession number ATCC 98468;
- 25 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ek390_4 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:72;
- 30 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:72 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:72;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 35 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

91. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:72;
- (b) the amino acid sequence of SEQ ID NO:72 from amino acid 6 to amino acid 92;
- (c) fragments of the amino acid sequence of SEQ ID NO:72 comprising eight consecutive amino acids of SEQ ID NO:72; and
- (d) the amino acid sequence encoded by the cDNA insert of clone ek390_4 deposited under accession number ATCC 98468;
- the protein being substantially free from other mammalian proteins.
92. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:71.
- 15 93. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73 from nucleotide 31 to nucleotide 1230;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73 from nucleotide 289 to nucleotide 1230;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73 from nucleotide 344 to nucleotide 1119;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone er471_7 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone er471_7 deposited under accession number ATCC 98468;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone er471_7 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone er471_7 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:74;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:74 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:74;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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94. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:74;

(b) the amino acid sequence of SEQ ID NO:74 from amino acid 111 to amino acid 363;

(c) fragments of the amino acid sequence of SEQ ID NO:74 comprising eight consecutive amino acids of SEQ ID NO:74; and

(d) the amino acid sequence encoded by the cDNA insert of clone er471_7 deposited under accession number ATCC 98468;

15 the protein being substantially free from other mammalian proteins.

95. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:74.

96. An isolated polynucleotide selected from the group consisting of:

20 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:75; (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:75 from nucleotide 62 to nucleotide 322;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:75 from nucleotide 571 to nucleotide 878;

25 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fs40_3 deposited under accession number ATCC 98468;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fs40_3 deposited under accession number ATCC 98468;

30 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fs40_3 deposited under accession number ATCC 98468;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fs40_3 deposited under accession number ATCC 98468;

35 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:76;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:76 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:76;

- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- 5 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

97. A protein comprising an amino acid sequence selected from the group consisting of:

- 10 (a) the amino acid sequence of SEQ ID NO:76;
- (b) fragments of the amino acid sequence of SEQ ID NO:76 comprising eight consecutive amino acids of SEQ ID NO:76; and
- (c) the amino acid sequence encoded by the cDNA insert of clone fs40_3 deposited under accession number ATCC 98468;
- 15 the protein being substantially free from other mammalian proteins.

98. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:75.

99. An isolated polynucleotide selected from the group consisting of:

- 20 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77 from nucleotide 43 to nucleotide 1671;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77 from nucleotide 112 to nucleotide 1671;
- 25 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77 from nucleotide 224 to nucleotide 679;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ga63_6 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ga63_6 deposited under accession number ATCC 98468;
- 30 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ga63_6 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ga63_6 deposited under accession number ATCC 98468;
- 35 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:78;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:78 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:78;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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100. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:78;
 - (b) the amino acid sequence of SEQ ID NO:78 from amino acid 62 to amino acid 212;
 - (c) fragments of the amino acid sequence of SEQ ID NO:78 comprising eight consecutive amino acids of SEQ ID NO:78; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ga63_6 deposited under accession number ATCC 98468;
- the protein being substantially free from other mammalian proteins.

20 101. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:77.

102. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79 from nucleotide 17 to nucleotide 523;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79 from nucleotide 77 to nucleotide 523;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79 from nucleotide 1 to nucleotide 392;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gm335_4 deposited under accession number ATCC 98468;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gm335_4 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gm335_4 deposited under accession number ATCC 98468;

- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gm335_4 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:80;
- 5 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:80 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:80;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 10 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

15 103. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:80;
- (b) the amino acid sequence of SEQ ID NO:80 from amino acid 1 to amino acid 125;
- 20 (c) fragments of the amino acid sequence of SEQ ID NO:80 comprising eight consecutive amino acids of SEQ ID NO:80; and
- (d) the amino acid sequence encoded by the cDNA insert of clone gm335_4 deposited under accession number ATCC 98468;
the protein being substantially free from other mammalian proteins.

25 104. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:79.

105. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81;
- 30 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81 from nucleotide 2 to nucleotide 991;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81 from nucleotide 62 to nucleotide 991;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81
- 35 from nucleotide 2 to nucleotide 504;
- (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone hy370_9 deposited under accession number ATCC 98468;

- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hy370_9 deposited under accession number ATCC 98468;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hy370_9 deposited under accession number ATCC 98468;
- 5 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hy370_9 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:82;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:82 having biological activity, the fragment comprising 10 eight consecutive amino acids of SEQ ID NO:82;
- 15 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 15 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

106. A protein comprising an amino acid sequence selected from the group 20 consisting of:
- (a) the amino acid sequence of SEQ ID NO:82;
 - (b) the amino acid sequence of SEQ ID NO:82 from amino acid 1 to amino acid 167;
 - (c) fragments of the amino acid sequence of SEQ ID NO:82 comprising eight 25 consecutive amino acids of SEQ ID NO:16; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone hy370_9 deposited under accession number ATCC 98468;
- the protein being substantially free from other mammalian proteins.

- 30 107. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:81.
108. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83 from nucleotide 77 to nucleotide 616;
 - 35 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83 from nucleotide 164 to nucleotide 616;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83 from nucleotide 1 to nucleotide 415;

- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ie47_4 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ie47_4 deposited under accession number ATCC 98468;
- 5 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ie47_4 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ie47_4 deposited under accession number ATCC 98468;
- 10 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:83;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:83 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:83;
- 15 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(j).

109. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:84;
 - 25 (b) the amino acid sequence of SEQ ID NO:84 from amino acid 1 to amino acid 113;
 - (c) fragments of the amino acid sequence of SEQ ID NO:84 comprising eight consecutive amino acids of SEQ ID NO:84; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ie47_4 30 deposited under accession number ATCC 98468;
- the protein being substantially free from other mammalian proteins.

110. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:84.
- 35 111. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85 from nucleotide 564 to nucleotide 2813;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85 from nucleotide 705 to nucleotide 2813;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85 from nucleotide 793 to nucleotide 1628;
- 5 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone s195_10 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone s195_10 deposited under accession number ATCC 98468;
- 10 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone s195_10 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone s195_10 deposited under accession number ATCC 98468;
- 15 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:86;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:86 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:86;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
- 20 above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 25 112. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:86;
- (b) the amino acid sequence of SEQ ID NO:86 from amino acid 78 to amino
- 30 acid 355;
- (c) fragments of the amino acid sequence of SEQ ID NO:86 comprising eight consecutive amino acids of SEQ ID NO:86; and
- (d) the amino acid sequence encoded by the cDNA insert of clone s195_10 deposited under accession number ATCC 98468;
- 35 the protein being substantially free from other mammalian proteins.
113. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:85.

114.. A composition comprising an isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97 from nucleotide 516 to nucleotide 797;
- 5 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97 from nucleotide 606 to nucleotide 797;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97 from nucleotide 1 to nucleotide 773;
- 10 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bf228_14 deposited under accession number ATCC 98482;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bf228_14 deposited under accession number ATCC 98482;
- 15 (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bf228_14 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bf228_14 deposited under accession number ATCC 98482;
- 20 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:98;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:98 having biological activity;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
- 25 above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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115. A composition of claim 1 wherein said polynucleotide is operably linked to an expression control sequence.

116. A host cell transformed with a composition of claim 115.

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117. The host cell of claim 116, wherein said cell is a mammalian cell.

118. A process for producing a protein, which comprises:

- (a) growing a culture of the host cell of claim 117 in a suitable culture medium; and
(b) purifying the protein from the culture.

5 119. A protein produced according to the process of claim 118.

120. The protein of claim 115 comprising a mature protein.

121. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
(a) the amino acid sequence of SEQ ID NO:98;
(b) the amino acid sequence of SEQ ID NO:98 from amino acid 1 to amino acid 86;
(c) fragments of the amino acid sequence of SEQ ID NO:98; and
15 (d) the amino acid sequence encoded by the cDNA insert of clone bf228_14 deposited under accession number ATCC 98482;
the protein being substantially free from other mammalian proteins.

122. The composition of claim 121, wherein said protein comprises the amino acid sequence of SEQ ID NO:98.
20

123. The composition of claim 121, wherein said protein comprises the amino acid sequence of SEQ ID NO:98 from amino acid 1 to amino acid 86.

25 124. The composition of claim 121, further comprising a pharmaceutically acceptable carrier.

125. A method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 121.
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126. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:97.

127. A composition comprising an isolated polynucleotide selected from the group consisting of:
35 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 137 to nucleotide 1240;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 1 to nucleotide 1153;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bg249_1 deposited under accession number ATCC 98482;
- 5 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bg249_1 deposited under accession number ATCC 98482;
- (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bg249_1 deposited under accession number ATCC 98482;
- 10 (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bg249_1 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:100;
- 15 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:100 having biological activity;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of
- 20 (h) or (i) above ; and
- (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
128. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
- 25 (a) the amino acid sequence of SEQ ID NO:100;
- (b) the amino acid sequence of SEQ ID NO:100 from amino acid 1 to amino acid 339;
- (c) fragments of the amino acid sequence of SEQ ID NO:100; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bg249_1
- 30 deposited under accession number ATCC 98482;
- the protein being substantially free from other mammalian proteins.

129. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:99.
- 35 130. A composition comprising an isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 26 to nucleotide 301;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 104 to nucleotide 301;
- 5 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 1 to nucleotide 119;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bv286_1 deposited under accession number ATCC 98482;
- 10 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bv286_1 deposited under accession number ATCC 98482;
- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bv286_1 deposited under accession number ATCC 98482;
- 15 (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bv286_1 deposited under accession number ATCC 98482;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:102;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:102 having biological activity;
- 20 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- 25 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

131. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
- 30 (a) the amino acid sequence of SEQ ID NO:102;
- (b) the amino acid sequence of SEQ ID NO:102 from amino acid 1 to amino acid 31;
- (c) fragments of the amino acid sequence of SEQ ID NO:102; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bv286_1
- 35 deposited under accession number ATCC 98482;
the protein being substantially free from other mammalian proteins.

132. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:101.

133. A composition comprising an isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 from nucleotide 663 to nucleotide 755;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 from nucleotide 1 to nucleotide 850;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone co36_1 deposited under accession number ATCC 98482;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone co36_1 deposited under accession number ATCC 98482;
- (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone co36_1 deposited under accession number ATCC 98482;
- (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone co36_1 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:104;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:104 having biological activity;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

134. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:104;
- (b) the amino acid sequence of SEQ ID NO:104 from amino acid 1 to amino acid 22;
- (c) fragments of the amino acid sequence of SEQ ID NO:104; and

(d) the amino acid sequence encoded by the cDNA insert of clone co36_1 deposited under accession number ATCC 98482; the protein being substantially free from other mammalian proteins.

5 135. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:103.

136. A composition comprising an isolated polynucleotide selected from the group consisting of:

- 10 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 127 to nucleotide 783;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 172 to nucleotide 783;
- 15 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 7 to nucleotide 462;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cp116_1 deposited under accession number ATCC 98482;
- 20 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cp116_1 deposited under accession number ATCC 98482;
- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone cp116_1 deposited under accession number ATCC 98482;
- 25 (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone cp116_1 deposited under accession number ATCC 98482;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:106;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:106 having biological activity;
- 30 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 35 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

137. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:106;
 - (b) the amino acid sequence of SEQ ID NO:106 from amino acid 1 to amino acid 112;
 - (c) fragments of the amino acid sequence of SEQ ID NO:106; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cp116_1 deposited under accession number ATCC 98482;
- the protein being substantially free from other mammalian proteins.

10 138. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:105.

139. A composition comprising an isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:108;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:108 from nucleotide 231 to nucleotide 533;
- (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cw1195_2 deposited under accession number ATCC 98482;
- (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cw1195_2 deposited under accession number ATCC 98482;
- (e) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone cw1195_2 deposited under accession number ATCC 98482;
- (f) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone cw1195_2 deposited under accession number ATCC 98482;
- (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:109;
- (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:109 having biological activity;
- (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
- (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above ; and
- (k) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h).

140. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:109;
- (b) fragments of the amino acid sequence of SEQ ID NO:109; and
- 5 (c) the amino acid sequence encoded by the cDNA insert of clone cw1195_2 deposited under accession number ATCC 98482;
the protein being substantially free from other mammalian proteins.

141. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:108, SEQ ID NO:107 or SEQ ID NO:110.

142. A composition comprising an isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:111;
- 15 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:111 from nucleotide 645 to nucleotide 782;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:111 from nucleotide 10 to nucleotide 773;
- 20 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fh13_10 deposited under accession number ATCC 98482;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fh13_10 deposited under accession number ATCC 98482;
- 25 (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone fh13_10 deposited under accession number ATCC 98482;
- (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone fh13_10 deposited under accession number ATCC 98482;
- 30 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:112;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:112 having biological activity;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 35 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

143. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:112;
- (b) the amino acid sequence of SEQ ID NO:112 from amino acid 1 to amino acid 43;
- (c) fragments of the amino acid sequence of SEQ ID NO:112; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fh13_10 deposited under accession number ATCC 98482;
- 10 the protein being substantially free from other mammalian proteins.
144. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:111.
- 15 145. A composition comprising an isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113 from nucleotide 94 to nucleotide 216;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113 from nucleotide 160 to nucleotide 216;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113 from nucleotide 20 to nucleotide 193;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gc57_4 deposited under accession number ATCC 98482;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gc57_4 deposited under accession number ATCC 98482;
- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone gc57_4 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone gc57_4 deposited under accession number ATCC 98482;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:114;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:114 having biological activity;

- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 5 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

146. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:

- 10 (a) the amino acid sequence of SEQ ID NO:114;
 - (b) the amino acid sequence of SEQ ID NO:114 from amino acid 1 to amino acid 33;
 - (c) fragments of the amino acid sequence of SEQ ID NO:114; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone .gc57_4
 - 15 deposited under accession number ATCC 98482;
- the protein being substantially free from other mammalian proteins.

147. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:113.

- 20 148. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:115;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:115
 - 25 from nucleotide 2 to nucleotide 943;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:115 from nucleotide 2 to nucleotide 670;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone h1165_3 deposited under accession number ATCC
 - 30 98482;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone h1165_3 deposited under accession number ATCC 98482;
 - (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone h1165_3 deposited under accession number ATCC
 - 35 98482;
 - (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone h1165_3 deposited under accession number ATCC 98482;

- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:116;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:116 having biological activity;
- 5 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide capable of hybridizing under stringent conditions to 10 any one of the polynucleotides specified in (a)-(i).

149. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:116;
 - 15 (b) the amino acid sequence of SEQ ID NO:116 from amino acid 1 to amino acid 223;
 - (c) fragments of the amino acid sequence of SEQ ID NO:116; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone h1165_3 deposited under accession number ATCC 98482;
 - 20 the protein being substantially free from other mammalian proteins.

150. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:115.
151. A composition comprising an isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ.ID.NO:117;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117 from nucleotide 1242 to nucleotide 1457;
 - 30 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117 from nucleotide 1326 to nucleotide 1457;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117 from nucleotide 869 to nucleotide 1544;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone hb752_1 deposited under accession number ATCC 98482;
 - 35 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hb752_1 deposited under accession number ATCC 98482;

- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone hb752_1 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone hb752_1 deposited under accession number ATCC 98482;
- 5 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:118;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:118 having biological activity;
- 10 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to
15 any one of the polynucleotides specified in (a)-(j).

152. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:118;
- 20 (b) the amino acid sequence of SEQ ID NO:118 from amino acid 1 to amino acid 69;
- (c) fragments of the amino acid sequence of SEQ ID NO:118; and
- (d) the amino acid sequence encoded by the cDNA insert of clone hb752_1 deposited under accession number ATCC 98482;
- 25 the protein being substantially free from other mammalian proteins.

153. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:117.
154. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:129;
- 30 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:129 from nucleotide 864 to nucleotide 1340;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:129 from nucleotide 1 to nucleotide 1175;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length
35 protein coding sequence of clone bi127_5 deposited under accession number ATCC 98501;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bi127_5 deposited under accession number ATCC 98501;

- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bi127_5 deposited under accession number ATCC 98501;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bi127_5 deposited under accession number ATCC 98501;
- 5 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:130;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:130 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:130;
- 10 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- 15 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

155. The polynucleotide of claim 154 wherein said polynucleotide is operably linked to at least one expression control sequence.

- 20 156. A host cell transformed with the polynucleotide of claim 155.
- 157. The host cell of claim 3, wherein said cell is a mammalian cell.
- 158. A process for producing a protein encoded by the polynucleotide of claim 155, which process comprises:
 - 25 (a) growing a culture of the host cell of claim 156 in a suitable culture medium; and
 - (b) purifying said protein from the culture.
- 30 159. A protein produced according to the process of claim 158.
- 160. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:130;
 - (b) the amino acid sequence of SEQ ID NO:130 from amino acid 1 to amino acid 104;
 - 35 (c) fragments of the amino acid sequence of SEQ ID NO:130 comprising eight consecutive amino acids of SEQ ID NO:130; and

(d) the amino acid sequence encoded by the cDNA insert of clone bi127_5 deposited under accession number ATCC 98501; the protein being substantially free from other mammalian proteins.

5 161. The protein of claim 160, wherein said protein comprises the amino acid sequence of SEQ ID NO:130.

162. The protein of claim 160, wherein said protein comprises the amino acid sequence of SEQ ID NO:130 from amino acid 1 to amino acid 104.

10 163. A composition comprising the protein of claim 160 and a pharmaceutically acceptable carrier.

15 164. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:129.

165. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131
20 from nucleotide 46 to nucleotide 738;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131
from nucleotide 346 to nucleotide 738;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131
from nucleotide 688 to nucleotide 1425;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length
25 protein coding sequence of clone bl194_2 deposited under accession number ATCC 98501;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA
insert of clone bl194_2 deposited under accession number ATCC 98501;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein
30 coding sequence of clone bl194_2 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
of clone bl194_2 deposited under accession number ATCC 98501;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence
35 of SEQ ID NO:132;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
acid sequence of SEQ ID NO:132 having biological activity, the fragment comprising
eight consecutive amino acids of SEQ ID NO:132;

- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 5 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

166. A protein comprising an amino acid sequence selected from the group consisting of:

- 10 (a) the amino acid sequence of SEQ ID NO:132;
- (b) the amino acid sequence of SEQ ID NO:132 from amino acid 1 to amino acid 171;
- (c) fragments of the amino acid sequence of SEQ ID NO:132 comprising eight consecutive amino acids of SEQ ID NO:132; and
- 15 (d) the amino acid sequence encoded by the cDNA insert of clone bl194_2 deposited under accession number ATCC 98501;
the protein being substantially free from other mammalian proteins.

167. An isolated gene corresponding to the cDNA sequence of SEQ ID
20 NO:131.

168. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133
25 from nucleotide 234 to nucleotide 1235;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133
from nucleotide 291 to nucleotide 1235;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133
from nucleotide 209 to nucleotide 1050;
- 30 (e) a polynucleotide comprising the nucleotide sequence of the full- length
protein coding sequence of clone cc130_1 deposited under accession number ATCC
98501;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA
insert of clone cc130_1 deposited under accession number ATCC 98501;
- 35 (g) a polynucleotide comprising the nucleotide sequence of a mature protein
coding sequence of clone cc130_1 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
of clone cc130_1 deposited under accession number ATCC 98501;

- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:134;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:134 having biological activity, the fragment comprising 5 eight consecutive amino acids of SEQ ID NO:134;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 10 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

169. A protein comprising an amino acid sequence selected from the group consisting of:
- 15 (a) the amino acid sequence of SEQ ID NO:134;
 - (b) the amino acid sequence of SEQ ID NO:134 from amino acid 1 to amino acid 272;
 - (c) fragments of the amino acid sequence of SEQ ID NO:134 comprising eight consecutive amino acids of SEQ ID NO:134; and
- 20 (d) the amino acid sequence encoded by the cDNA insert of clone cc130_1 deposited under accession number ATCC 98501;
the protein being substantially free from other mammalian proteins.

170. An isolated gene corresponding to the cDNA sequence of SEQ ID
25 NO:133.

171. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135
30 from nucleotide 1554 to nucleotide 1784;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135 from nucleotide 1659 to nucleotide 1784;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7 from nucleotide 1508 to nucleotide 1865;
 - 35 (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone ch582_1 deposited under accession number ATCC 98501;

- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ch582_1 deposited under accession number ATCC 98501;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ch582_1 deposited under accession number ATCC 98501;
- 5 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ch582_1 deposited under accession number ATCC 98501;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:136;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:136 having biological activity, the fragment comprising 10 eight consecutive amino acids of SEQ ID NO:136;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) 15 or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

172. A protein comprising an amino acid sequence selected from the group 20 consisting of:

- (a) the amino acid sequence of SEQ ID NO:136;
- (b) fragments of the amino acid sequence of SEQ ID NO:136 comprising eight consecutive amino acids of SEQ ID NO:136; and
- (c) the amino acid sequence encoded by the cDNA insert of clone ch582_1 25 deposited under accession number ATCC 98501;

the protein being substantially free from other mammalian proteins.

173. An isolated gene corresponding to the cDNA sequence of SEQ ID 30 NO:135.

174. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137 35 from nucleotide 1375 to nucleotide 1605;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137 from nucleotide 1107 to nucleotide 1539;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cq294_14 deposited under accession number ATCC 98501;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cq294_14 deposited under accession number ATCC 98501;
- 5 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cq294_14 deposited under accession number ATCC 98501;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cq294_14 deposited under accession number ATCC 98501;
- 10 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:138;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:138 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:138;
- 15 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(i).

175. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:138;
 - 25 (b) the amino acid sequence of SEQ ID NO:138 from amino acid 1 to amino acid 55;
 - (c) fragments of the amino acid sequence of SEQ ID NO:138 comprising eight consecutive amino acids of SEQ ID NO:138; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cq294_14 30 deposited under accession number ATCC 98501;
- the protein being substantially free from other mammalian proteins.

176. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:137.

- 35 177. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139 from nucleotide 66 to nucleotide 1880;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139 from nucleotide 1 to nucleotide 581;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dd454_1 deposited under accession number ATCC 98501;
- 5 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dd454_1 deposited under accession number ATCC 98501;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dd454_1 deposited under accession number ATCC 98501;
- 10 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dd454_1 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:140;
- 15 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:140 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:140;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 20 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

178. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:140;
- (b) the amino acid sequence of SEQ ID NO:140 from amino acid 1 to amino acid 172;
- 30 (c) fragments of the amino acid sequence of SEQ ID NO:140 comprising eight consecutive amino acids of SEQ ID NO:140; and
- (d) the amino acid sequence encoded by the cDNA insert of clone dd454_1 deposited under accession number ATCC 98501;
the protein being substantially free from other mammalian proteins.

35 179. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:139.

180. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 462 to nucleotide 3170;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 1188 to nucleotide 1517;
- 5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone du157_12 deposited under accession number ATCC 98724;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA 10 insert of clone du157_12 deposited under accession number ATCC 98724;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone du157_12 deposited under accession number ATCC 98724;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert 15 of clone du157_12 deposited under accession number ATCC 98724;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:142;
- 20 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:142 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:142;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- 25 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

181. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:142;
 - 30 (b) the amino acid sequence of SEQ ID NO:14 from amino acid 251 to amino acid 352;
 - (c) fragments of the amino acid sequence of SEQ ID NO:142 comprising eight consecutive amino acids of SEQ ID NO:142; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone du157_12 35 deposited under accession number ATCC 98724;
- the protein being substantially free from other mammalian proteins.

182. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:141.

183. An isolated polynucleotide selected from the group consisting of:

- 5 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 865 to nucleotide 1158;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 1108 to nucleotide 1158;
- 10 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 1 to nucleotide 764;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone du372_1 deposited under accession number ATCC 98501;
- 15 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone du372_1 deposited under accession number ATCC 98501;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone du372_1 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
20 of clone du372_1 deposited under accession number ATCC 98501;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:144;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:144 having biological activity, the fragment comprising
25 eight consecutive amino acids of SEQ ID NO:144;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 30 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

184. A protein comprising an amino acid sequence selected from the group consisting of:

- 35 (a) the amino acid sequence of SEQ ID NO:144;
- (b) the amino acid sequence of SEQ ID NO:144 from amino acid 69 to amino acid 98;

- (c) fragments of the amino acid sequence of SEQ ID NO:144 comprising eight consecutive amino acids of SEQ ID NO:144; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone du372_1 deposited under accession number ATCC 98501;
- 5 the protein being substantially free from other mammalian proteins.

185. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:143.

- 10 186. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 32 to nucleotide 586;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 92 to nucleotide 586;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 1 to nucleotide 481;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ej90_5 deposited under accession number ATCC 20 98501;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ej90_5 deposited under accession number ATCC 98501;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ej90_5 deposited under accession number ATCC 98501;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ej90_5 deposited under accession number ATCC 98501;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:146;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:146 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:146;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

187. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:146;
 - (b) the amino acid sequence of SEQ ID NO:146 from amino acid 1 to amino acid 150;
 - 5 (c) fragments of the amino acid sequence of SEQ ID NO:146 comprising eight consecutive amino acids of SEQ ID NO:146; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ej90_5 deposited under accession number ATCC 98501;
- 10 the protein being substantially free from other mammalian proteins.

188. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:145.

189. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 281 to nucleotide 1786;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 332 to nucleotide 1786;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 1 to nucleotide 574;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ic2_6 deposited under accession number ATCC 98501;
 - 25 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ic2_6 deposited under accession number ATCC 98501;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ic2_6 deposited under accession number ATCC 98501;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ic2_6 deposited under accession number ATCC 98501;
 - 30 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:148;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:148 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:148;
 - 35 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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190. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:148;
(b) the amino acid sequence of SEQ ID NO:148 from amino acid 1 to amino acid 98;
(c) fragments of the amino acid sequence of SEQ ID NO:148 comprising eight consecutive amino acids of SEQ ID NO:148; and
(d) the amino acid sequence encoded by the cDNA insert of clone ic2_6 deposited under accession number ATCC 98501;
- 15 the protein being substantially free from other mammalian proteins.

191. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:147.

192. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:159;
20 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:159 from nucleotide 69 to nucleotide 908;
(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:159 from nucleotide 270 to nucleotide 908;
(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bn97_1 deposited under accession number ATCC 25 98535;
(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bn97_1 deposited under accession number ATCC 98535;
30 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bn97_1 deposited under accession number ATCC 98535;
(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bn97_1 deposited under accession number ATCC 98535;
(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:160;
35 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:160 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:160;

- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- 5 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

193. The polynucleotide of claim 191 wherein said polynucleotide is operably linked to at least one expression control sequence.

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194. A host cell transformed with the polynucleotide of claim 192.

195. The host cell of claim 194, wherein said cell is a mammalian cell.

196. A process for producing a protein encoded by the polynucleotide of claim 193, which process comprises:

- (a) growing a culture of the host cell of claim 3 in a suitable culture medium; and
- (b) purifying said protein from the culture.

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197. A protein produced according to the process of claim 196.

198. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:160;
 - (b) the amino acid sequence of SEQ ID NO:160 from amino acid 1 to amino acid 83;
 - (c) fragments of the amino acid sequence of SEQ ID NO:160 comprising eight consecutive amino acids of SEQ ID NO:160; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bn97_1 deposited under accession number ATCC 98535;
- the protein being substantially free from other mammalian proteins.

199. The protein of claim 198, wherein said protein comprises the amino acid sequence of SEQ ID NO:2.

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200. The protein of claim 198, wherein said protein comprises the amino acid sequence of SEQ ID NO:2 from amino acid 1 to amino acid 83.

201. A composition comprising the protein of claim 198 and a pharmaceutically acceptable carrier.

202. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:1.

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203. An isolated polynucleotide selected from the group consisting of:

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(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 562 to nucleotide 777;

15

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 236 to nucleotide 673;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bn268_11 deposited under accession number ATCC 98535;

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(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bn268_11 deposited under accession number ATCC 98535;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bn268_11 deposited under accession number ATCC 98535;

20

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bn268_11 deposited under accession number ATCC 98535;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:162;

25

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:162 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:162;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

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(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

204. A protein comprising an amino acid sequence selected from the group consisting of:

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(a) the amino acid sequence of SEQ ID NO:162;

(b) the amino acid sequence of SEQ ID NO:162 from amino acid 1 to amino acid 37;

- (c) fragments of the amino acid sequence of SEQ ID NO:162 comprising eight consecutive amino acids of SEQ ID NO:162; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bn268_11 deposited under accession number ATCC 98535;
- 5 the protein being substantially free from other mammalian proteins.

205. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:161.

- 10 206. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 286 to nucleotide 1686;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 544 to nucleotide 1686;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 365 to nucleotide 1160;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cb96_10 deposited under accession number ATCC 98535;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cb96_10 deposited under accession number ATCC 98535;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cb96_10 deposited under accession number ATCC 98535;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cb96_10 deposited under accession number ATCC 98535;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:164;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:164 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:164;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

207. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:164;
 - (b) the amino acid sequence of SEQ ID NO:164 from amino acid 28 to amino acid 395;
 - (c) fragments of the amino acid sequence of SEQ ID NO:164 comprising eight consecutive amino acids of SEQ ID NO:164; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cb96_10 deposited under accession number ATCC 98535;
- 10 the protein being substantially free from other mammalian proteins.

208. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:163.

15 209. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 99 to nucleotide 1049;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 222 to nucleotide 1049;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 632 to nucleotide 998;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cb213_11 deposited under accession number ATCC 98535;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cb213_11 deposited under accession number ATCC 98535;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cb213_11 deposited under accession number ATCC 98535;
- 30 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cb213_11 deposited under accession number ATCC 98535;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:166;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:166 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:166;
- 35 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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210. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:166;

10 (b) the amino acid sequence of SEQ ID NO:166 from amino acid 187 to amino acid 300;

(c) fragments of the amino acid sequence of SEQ ID NO:166 comprising eight consecutive amino acids of SEQ ID NO:166; and

15 (d) the amino acid sequence encoded by the cDNA insert of clone cb213_11 deposited under accession number ATCC 98535;

the protein being substantially free from other mammalian proteins.

211. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:165.

20 212. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167;

25 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 3003 to nucleotide 3137;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 3072 to nucleotide 3137;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 2713 to nucleotide 3114;

30 (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone cj457_4 deposited under accession number ATCC 98535;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cj457_4 deposited under accession number ATCC 98535;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cj457_4 deposited under accession number ATCC 98535;

35 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cj457_4 deposited under accession number ATCC 98535;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:168;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:168 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:168;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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213. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:168;
 - (b) the amino acid sequence of SEQ ID NO:168 from amino acid 1 to amino acid 37;
 - (c) fragments of the amino acid sequence of SEQ ID NO:168 comprising eight consecutive amino acids of SEQ ID NO:168; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cj457_4 deposited under accession number ATCC 98535;
- 20 the protein being substantially free from other mammalian proteins.

214. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:167.

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215. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169 from nucleotide 284 to nucleotide 1357;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169 from nucleotide 603 to nucleotide 1233;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cz653_11 deposited under accession number ATCC 98535;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cz653_11 deposited under accession number ATCC 98535;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cz653_11 deposited under accession number ATCC 98535;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cz653_11 deposited under accession number ATCC 98535;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:170;

5 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:170 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:170;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

10 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

15 216. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:170;

(b) the amino acid sequence of SEQ ID NO:170 from amino acid 147 to amino acid 358;

20 (c) fragments of the amino acid sequence of SEQ ID NO:170 comprising eight consecutive amino acids of SEQ ID NO:170; and

(d) the amino acid sequence encoded by the cDNA insert of clone cz653_11 deposited under accession number ATCC 98535;

the protein being substantially free from other mammalian proteins.

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217. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:169.

218. An isolated polynucleotide selected from the group consisting of:

30 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171 from nucleotide 621 to nucleotide 1763;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171 from nucleotide 1461 to nucleotide 1763;

35 (d) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone dx138_4 deposited under accession number ATCC 98535;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dx138_4 deposited under accession number ATCC 98535;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dx138_4 deposited under accession number ATCC 98535;
- 5 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dx138_4 deposited under accession number ATCC 98535;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:172;
- 10 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:172 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:172;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 15 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

219. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:172;
 - (b) the amino acid sequence of SEQ ID NO:172 from amino acid 83 to amino acid 229
 - 25 (c) fragments of the amino acid sequence of SEQ ID NO:172 comprising eight consecutive amino acids of SEQ ID NO:172; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone dx138_4 deposited under accession number ATCC 98535;
- the protein being substantially free from other mammalian proteins.

30 220. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:171.

221. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173;
- 35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 119 to nucleotide 295;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 191 to nucleotide 295;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ij167_5 deposited under accession number ATCC 98535;
- 5 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ij167_5 deposited under accession number ATCC 98535;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ij167_5 deposited under accession number ATCC 98535;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ij167_5 deposited under accession number ATCC 98535;
- 10 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:174;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:174 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:174;
- 15 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(i).

222. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:174;
 - 25 (b) the amino acid sequence of SEQ ID NO:174 from amino acid 1 to amino acid 26;
 - (c) fragments of the amino acid sequence of SEQ ID NO:174 comprising eight consecutive amino acids of SEQ ID NO:174; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ij167_5 30 deposited under accession number ATCC 98535;
- the protein being substantially free from other mammalian proteins.

223. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:173.
224. An isolated polynucleotide selected from the group consisting of:
- 35 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:183;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:183 from nucleotide 25 to nucleotide 1458;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:183 from nucleotide 21 to nucleotide 730;
- 5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bd107_16 deposited under accession number ATCC 98898;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bd107_16 deposited under accession number ATCC 98898;
- 10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bd107_16 deposited under accession number ATCC 98898;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bd107_16 deposited under accession number ATCC 98898;
- 15 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:184;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:184 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:184;
- 20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

225. The polynucleotide of claim 224 wherein said polynucleotide is operably linked to at least one expression control sequence.

226. A host cell transformed with the polynucleotide of claim 225.
227. The host cell of claim 226, wherein said cell is a mammalian cell.
- 30 228. A process for producing a protein encoded by the polynucleotide of claim 225, which process comprises:
- (a) growing a culture of the host cell of claim 226 in a suitable culture medium; and
- (b) purifying said protein from the culture.
- 35 229. A protein produced according to the process of claim 228.

230. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:184;
 - (b) the amino acid sequence of SEQ ID NO:184 from amino acid 2 to amino acid 118;
 - (c) fragments of the amino acid sequence of SEQ ID NO:184 comprising eight consecutive amino acids of SEQ ID NO:184; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bd107_16 deposited under accession number ATCC 98898;
- 10 the protein being substantially free from other mammalian proteins.

231. The protein of claim 230, wherein said protein comprises the amino acid sequence of SEQ ID NO:184.

15 232. The protein of claim 230, wherein said protein comprises the amino acid sequence of SEQ ID NO:184 from amino acid 2 to amino acid 118.

20 233. A composition comprising the protein of claim 230 and a pharmaceutically acceptable carrier.

234. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:183.

25 235. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:185;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:185 from nucleotide 6 to nucleotide 977;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:185 from nucleotide 87 to nucleotide 977;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 8 to nucleotide 630;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bm41_7 deposited under accession number ATCC 98898;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bm41_7 deposited under accession number ATCC 98898;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bm41_7 deposited under accession number ATCC 98898;

- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bm41_7 deposited under accession number ATCC 98898;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:186;
- 5 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:186 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:186;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 10 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

15 236. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:186;
 - (b) the amino acid sequence of SEQ ID NO:186 from amino acid 211 to amino acid 315;
- 20 (c) fragments of the amino acid sequence of SEQ ID NO:186 comprising eight consecutive amino acids of SEQ ID NO:186; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bm41_7 deposited under accession number ATCC 98898;
- the protein being substantially free from other mammalian proteins.

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237. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:185.

238. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:187;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:187 from nucleotide 168 to nucleotide 962;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:187 from nucleotide 351 to nucleotide 962;
- 30 (d) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone br342_11 deposited under accession number ATCC 98551;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone br342_11 deposited under accession number ATCC 98551;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone br342_11 deposited under accession number ATCC 98551;
- 5 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone br342_11 deposited under accession number ATCC 98551;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:188;
- 10 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:188 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:188;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 15 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

239. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:188;
 - (b) the amino acid sequence of SEQ ID NO:188 from amino acid 1 to amino acid 78;
 - 25 (c) fragments of the amino acid sequence of SEQ ID NO:188 comprising eight consecutive amino acids of SEQ ID NO:188; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone br342_11 deposited under accession number ATCC 98551;
- the protein being substantially free from other mammalian proteins.

30 240. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:187.

241. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:189;
- 35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:189 from nucleotide 134 to nucleotide 493;

- (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ej258_11 deposited under accession number ATCC 98551;
- 5 (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ej258_11 deposited under accession number ATCC 98551;
- (e) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ej258_11 deposited under accession number ATCC 98551;
- 10 (f) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ej258_11 deposited under accession number ATCC 98551;
- (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:190;
- (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:190 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:190;
- 15 (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
- (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above ; and
- (k) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(h).

242. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:190;
 - 25 (b) the amino acid sequence of SEQ ID NO:190 from amino acid 1 to amino acid 64;
 - (c) fragments of the amino acid sequence of SEQ ID NO:190 comprising eight consecutive amino acids of SEQ ID NO:190; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ej258_11 30 deposited under accession number ATCC 98551;
- the protein being substantially free from other mammalian proteins.

243. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:189.

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244. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:191.

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:191 from nucleotide 14 to nucleotide 406;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:191 from nucleotide 62 to nucleotide 406;
- 5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone k232_2x deposited under accession number ATCC 98551;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone k232_2x deposited under accession number ATCC 98551;
- 10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone k232_2x deposited under accession number ATCC 98551;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone k232_2x deposited under accession number ATCC 98551;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence 15 of SEQ ID NO:192;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:192 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:192;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) 20 above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 25
245. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:192;
- (b) the amino acid sequence of SEQ ID NO:192 from amino acid 1 to amino 30 acid 81;
- (c) fragments of the amino acid sequence of SEQ ID NO:192 comprising eight consecutive amino acids of SEQ ID NO:192; and
- (d) the amino acid sequence encoded by the cDNA insert of clone k232_2x deposited under accession number ATCC 98551;
- 35 the protein being substantially free from other mammalian proteins.
246. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:191.

247. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:193;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:193 from nucleotide 580 to nucleotide 816;
 - 5 (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone lf307_5 deposited under accession number ATCC 98551;
 - (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone lf307_5 deposited under accession number ATCC 98551;
 - 10 (e) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone lf307_5 deposited under accession number ATCC 98551;
 - (f) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone lf307_5 deposited under accession number ATCC 98551;
 - (g) a polynucleotide encoding a protein comprising the amino acid sequence 15 of SEQ ID NO:194;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:194 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:194;
 - (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) 20 above;
 - (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above ; and
 - (k) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(h).

25 248. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:194;
 - (b) fragments of the amino acid sequence of SEQ ID NO:194 comprising 30 eight consecutive amino acids of SEQ ID NO:194; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone lf307_5 deposited under accession number ATCC 98551;
- the protein being substantially free from other mammalian proteins.

35 249. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:193 and SEQ ID NO:195.

250. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196 from nucleotide 127 to nucleotide 627;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196
- 5 from nucleotide 250 to nucleotide 627;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone lr204_1 deposited under accession number ATCC 98551;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA
- 10 insert of clone lr204_1 deposited under accession number ATCC 98551;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone lr204_1 deposited under accession number ATCC 98551;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
- 15 of clone lr204_1 deposited under accession number ATCC 98551;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
- of SEQ ID NO:197;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino
- acid sequence of SEQ ID NO:197 having biological activity, the fragment comprising
- eight consecutive amino acids of SEQ ID NO:197;
- 20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
- above;
- (k) a polynucleotide which encodes a species homologue of the protein of
- (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one
- 25 of the polynucleotides specified in (a)-(i).

251. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:197;
- 30 (b) the amino acid sequence of SEQ ID NO:197 from amino acid 23 to amino acid 106;
- (c) fragments of the amino acid sequence of SEQ ID NO:197 comprising eight consecutive amino acids of SEQ ID NO:197; and
- (d) the amino acid sequence encoded by the cDNA insert of clone lr204_1
- 35 deposited under accession number ATCC 98551;
- the protein being substantially free from other mammalian proteins.

252. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:196.

253. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:207;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095;
 - 5 (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bf227_8 deposited under accession number ATCC 98580;
 - (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bf227_8 deposited under accession number ATCC 98580;
 - 10 (e) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bf227_8 deposited under accession number ATCC 98580;
 - (f) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bf227_8 deposited under accession number ATCC 98580;
 - 15 (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:208;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:208 having biological activity;
 - (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f)
 - 20 above;
 - (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above ; and
 - (k) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h).

25 254. The polynucleotide of claim 253 wherein said polynucleotide is operably linked to at least one expression control sequence.

- 30 255. A host cell transformed with the polynucleotide of claim 254.
256. The host cell of claim 255, wherein said cell is a mammalian cell.
257. A process for producing a protein encoded by the polynucleotide of claim 254, which process comprises:
- 35 (a) growing a culture of the host cell of claim 255 in a suitable culture medium; and
 - (b) purifying said protein from the culture.

258. A protein produced according to the process of claim 257.
259. An isolated polynucleotide encoding the protein of claim 258.
- 5 260. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:208;
 - (b) the amino acid sequence of SEQ ID NO:208 from amino acid 1 to amino acid 34;
 - 10 (c) fragments of the amino acid sequence of SEQ ID NO:208; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bf227_8 deposited under accession number ATCC 98580;
the protein being substantially free from other mammalian proteins.
- 15 261. The protein of claim 260, wherein said protein comprises the amino acid sequence of SEQ ID NO:208.
262. The protein of claim 261, wherein said protein comprises the amino acid sequence of SEQ ID NO:4 from amino acid 1 to amino acid 34.
- 20 263. A composition comprising the protein of claim 261 and a pharmaceutically acceptable carrier.
264. A method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 263.
- 25 265. A process for producing an isolated polynucleotide, wherein the process is selected from the group consisting of:
- 30 (a) a process comprising the steps of:
 - (i) preparing one or more polynucleotide probes that hybridize in 6X SSC at 65 degrees C to a nucleotide sequence selected from the group consisting of:
 - (aa) SEQ ID NO:207, but excluding the poly(A) tail at the 3' end of SEQ ID NO:207; and
 - 35 (ab) the nucleotide sequence of the cDNA insert of clone bf227_8 deposited under ATCC 98580;
 - (ii) hybridizing said probe(s) to human DNA; and
 - (iii) isolating the DNA polynucleotide detected with the probe(s);

and

(b) a process comprising the steps of:

(i) preparing one or more polynucleotide primers that hybridize in 6X SSC at 65 degrees C to a nucleotide sequence selected from the group consisting of:

5 (ba) SEQ ID NO:207, but excluding the poly(A) tail at the 3' end of SEQ ID NO:207; and

(bb) the nucleotide sequence of the cDNA insert of clone bf227_8 deposited under ATCC 98580;

(ii) hybridizing said primer(s) to human DNA;

10 (iii) amplifying human DNA sequences; and

(iv) isolating the polynucleotide product of step (b)(iii).

266. An isolated polynucleotide produced according to the process of claim 265, wherein the nucleotide sequence of said isolated polynucleotide corresponds to the 15 cDNA sequence of SEQ ID NO:207, and extends contiguously from a nucleotide sequence corresponding to the 5' end of SEQ ID NO:207 to a nucleotide sequence corresponding to the 3' end of SEQ ID NO:207 but excluding the poly(A) tail at the 3' end of SEQ ID NO:207.

20 267. An isolated polynucleotide produced according to the process of claim 265, wherein the nucleotide sequence of said isolated polynucleotide corresponds to the cDNA sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095, and extends contiguously from a nucleotide sequence corresponding to the 5' end of said sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095, to a nucleotide sequence 25 corresponding to the 3' end of said sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095.

268. A composition comprising an isolated polynucleotide selected from the group consisting of:

30 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:209;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:209 from nucleotide 183 to nucleotide 911;

(c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bh157_7 deposited under accession number ATCC 35 98580;

(d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bh157_7 deposited under accession number ATCC 98580;

- (e) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bh157_7 deposited under accession number ATCC 98580;
- (f) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bh157_7 deposited under accession number ATCC 98580;
- 5 (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:210;
- (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:210 having biological activity;
- 10 (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
- (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above ; and
- (k) a polynucleotide capable of hybridizing under stringent conditions to 15 any one of the polynucleotides specified in (a)-(h).

269. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:210;
 - 20 (b) the amino acid sequence of SEQ ID NO:210 from amino acid 1 to amino acid 76;
 - (c) fragments of the amino acid sequence of SEQ ID NO:210; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bh157_7 deposited under accession number ATCC 98580;
 - 25 the protein being substantially free from other mammalian proteins.